

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

F A C T S H E E T
(pursuant to NAC 445A.236)

Permittee Name: Utilities Inc. of Central Nevada
 1240 E. State Street Suite 115
 Pahrump, Nevada 89048

Permit Number: NEV2005505

Description of Discharge

Location: Mountain Falls Wastewater Treatment Plant
 southwest of SR 160, east of Homestead Road on Manse
 Road 5 miles south of Pahrump, Nye County, Nevada
 89048

 Latitude 36° 08' 45"N; Longitude 115° 57' 15"W
 Section 6, T. 21S., R. 54E., MDB&M

General: The Permittee has applied for a permit to discharge treated wastewater to groundwaters of the state via an export pipeline to the Mountain Falls Golf Course for storage and onsite reuse irrigation, and/or to other approved future reuse sites for reuse irrigation. The proposed activated sludge Sequencing Batch Reactor (SBR) package treatment plant is designed to treat up to 0.750 MGD of domestic wastewater to meet 10 mg/l BOD₅, 10 mg/l TSS and 10 mg/l Total Nitrogen as N. The plant will produce high quality denitrified, disinfected effluent suitable for reuse, and will be operated in accordance with the Operations and Maintenance Manual (O & M) for the facility. The plant will be owned and operated by UICN. Treated effluent will be disinfected to 2.2/CFU/MPN/ml Total Coliform quality prior to reuse for landscape irrigation at the Mountain Falls Golf Course (Outfall 001), approved offsite winter disposal (Outfall 002), Subsurface irrigation/disposal at the driving range at the golf course (Outfall 003), winter storage pond (Outfall 004,) and or other reuse sites. (Outfall 005, etc.)

The plant will consist of a headworks with an automatically cleaned, fine screw screen with solids washer and compactor in a concrete flume with a vortex grit removal system. A manual screen will be used as a bypass bar screen. Flow from this screen and grit removal system will flow to a new lift station where it will be pumped sequentially into two (later 3) parallel SBR aeration/clarification basins (expandable to three). The SBR basins are sized to be capable of use as an equalization basin to handle peak wet weather flow conditions. Following treatment in the SBR basins the effluent will pass through sand filters and final disinfection prior to disposal/reuse. Sludge removed from the SBR basins will be pumped to an aerobic digester from

which the waste sludge will be directed to a sludge dewatering system (screw press) for disposal in the landfill.

Currently under agreement with the Pahrump Utility Co., Inc., the Mountain Falls development's effluent is treated by the Pahrump Utilities plant up to a flow of approximately 100,000 gpd until this new plant is online. The new plant is expected to be completed by Spring of 2006, with Utilities Inc. of Central Nevada owning and operating the new facility. Reuse will be initiated immediately with the plant operation. Mountain Falls Golf Course will have a permit to utilize the treated effluent for landscape irrigation and storage. This reuse permit application has been received by NDEP and is under review.

The Mountain Falls wastewater treatment plant will serve the Mountain Falls residential subdivision area located south of Pahrump and northwest of Manse, west of SR160. The facility consists of a collection system, lift stations and an export pipeline to carry treated effluent to the Mountain Falls Golf Course for storage and reuse. Other approved reuse sites will be added as a minor modification; these include the Nye Co. fairgrounds, and other approved reuse or storage facilities.

Flow: The plant facility has a flow limit of 0.750 MGD (million gallons a day).

Effluent Limitations:

The discharges shall be limited and monitored by the Permittee as specified below:

<u>PARAMETERS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	<u>30-day Ave.</u>	<u>Daily Max</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
INFLUENT FLOW:	0.750 MGD	0.750 MGD	Continuous	Recorder
EFFLUENT FLOW:	M & R MGD	M & R MGD	Continuous	Meter
Outfall 001				
INFLUENT BOD ₅ :	M & R mg/L	M & R mg/L	Monthly	Composite
EFFLUENT BOD ₅ :	10 mg/L	15 mg/L	Monthly	Composite
TOTAL SUSPENDED				
SOLIDS: INFLUENT:	M & R mg/L	M & R mg/L	Monthly	Composite
EFFLUENT:	10 mg/L	15 mg/L	Monthly	Composite
AMMONIA as N:	M & R mg/L	M & R mg/L	Monthly	Composite
NITRATE AS N:	M & R mg/L	M & R mg/L	Monthly	Composite

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TOTAL NITROGEN				
as N:	10 mg/L	M & R mg/L	Monthly	Composite
pH:	Between 6.0 and 9.0	SU	Monthly	Discrete
TOTAL COLIFORM:	2.2 CFU/100 ml	23 CFU/100 ml	Monthly	Discrete

Note: M & R = Monitor and Report CFU = colony forming units
ml = milliliter MGD = million gallons per day
SU = standard units mg/L = milligrams per liter

Receiving Water Characteristics: The receiving water is the groundwater of the State of Nevada. Based on historic data, the groundwater in the immediate area is potable and a drinking water source. Depth to groundwater is about 20-30 feet below ground surface.

Procedures for Public Comment:

The notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwaters of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Pahrump Valley Times and the Las Vegas Review-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the newspaper publication of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of U.S. EPA Region IX or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing scheduled by the Administrator must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination

The Division has made the tentative determination to issue the proposed permit for a five (5) year period.

Schedule of Compliance and Special Conditions

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
2. An Operations and Maintenance Manual (O & M) shall be submitted to the Division for review and approval by July 30, 2006. Interim wastewater handling shall be noted in the document. A Sludge Management Plan shall also be included in the O & M Manual. If sludge is disposed to locations other than approved landfill sites, said plan must also address Part 40 CFR Section 503 of the federal regulations.
- c. A letter of Certification wet-stamped by a Nevada Registered Professional Engineer stating that all plant elements have been constructed in accordance with Division approved plans for the facility shall be submitted to the Division within 15 days of completion of plant construction. A copy of the as-builts for the new plant facility and its related infrastructure shall also be included with the Certification.

Rationale for Permit Requirements:

Monitoring is required to assess the level of treatment being provided, to determine when design capacity is being approached and to ensure that surface and groundwaters are not degraded.